ELSEVIER

Earth and Planetary Science Letters 147 (1997) 155

EPSL

Contents Volume 147

Express Letter Section

The Vendian–Cambrian $\delta^{13}C$ record, North Iran: evidence for overturning of the ocean before the Cambrian Explosion
H. Kimura, R. Matsumoto, Y. Kakuwa, B. Hamdi and H. Zibaseresht E1
Single-crystal elasticity of β-Mg_2SiO_4 to the pressure of the 410 km seismic discontinuity in the Earth's mantle
C.-s. Zha, T.S. Duffy, H.-k. Mao, R.T. Downs, R.J. Hemley and D.J. Weidner E9

Regular Letters

Tessera deformation and the contemporaneous thermal state of the plateau highlands, Venus
C.D. Brown and R.E. Grimm 1
Distribution of platinum group elements and rhenium between metallic phases of iron meteorites
T. Hirata and R.W. Nesbitt 11
Late Jurassic age for the Morokweng impact structure, southern Africa
R.J. Hart, M.A.G. Andreoli, M. Tredoux, D. Moser, L.D. Ashwal, E.A. Eide, S.J. Webb and D. Brandt 25
Dating of Sirius Group tillites in the Antarctic Dry Valleys with cosmogenic ^{3}He and ^{21}Ne
L.A. Bruno, H. Baur, T. Graf, C. Schlüchter, P. Signer and R. Wieler 37
A link between geomagnetic reversals and events and glaciations
H.-U. Worm 55
Stable isotope compositions of waters and sulfate species therein, Death Valley, California, USA: Implications for inflow and sulfate sources, and arid basin climate
W. Yang, R.J. Spencer and H.R. Krouse 69
Fe and H_2O_2 distributions in the upper water column in the Indian sector of the Southern Ocean
G. Sarthou, C. Jeandel, L. Brisset, D. Amouroux, T. Besson and O.F.X. Donard 83
Recycled ocean crust and sediment in Indian Ocean MORB
M. Rehkämper and A.W. Hofmann 93
Mining-induced crustal deformation in northwest Germany: modelling the rheological structure of the lithosphere
A. Klein, W. Jacoby and P. Smilde 107
Late Quaternary slip rates on the Acireale–Piedimonte normal faults and tectonic origin of Mt. Etna (Sicily)
C. Monaco, P. Tapponnier, L. Tortorici and P.Y. Gillot 125
Organic carbon provenance and maturity in the mud breccia from the Napoli mud volcano: Indicators of origin and burial depth
H.-M. Schulz, K.-C. Emeis and N. Volkmann 141

Author Index Volume 147 153